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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,358	03/23/2004	Hong Gan	37505.0239	3948
33751	7590	12/20/2005	EXAMINER	
WILSON GREATBATCH TECHNOLOGIES, INC. 10,000 WEHRLE DRIVE CLARENCE, NY 14031			WILLS, MONIQUE M	
			ART UNIT	PAPER NUMBER
			1746	

DATE MAILED: 12/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/807,358

Applicant(s)

GAN ET AL

Examiner

Monique M. Wills

Art Unit

1746

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 23 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☒ Claim(s) 8 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 August 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 3/23/04.
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Information Disclosure Statement*

The information disclosure statements filed March 23, 2004 has/have been received and complies with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609. Accordingly, the information disclosure statement(s) is/are being considered by the examiner.

### *Claim Objections*

Claim 8 is objected to because of the following informalities: the stoichiometric value "x" is not defined for compound  $CF_x$ . Appropriate correction is required.

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-14 rejected under 35 U.S.C. 102(b) as being anticipated by  
Hallifax et al. U.s. Pub. 2002/0018928.

In re claims 1, 5 & 11, Hallifax teaches an electrochemical cell comprising: a casing (80) with a sidewall extended to an open end (fig. 8); a first anode with first (60) and second portions (68D), wherein the first portion (60) comprises a current collector (64) with first and second major sides, supporting first active material (62), where the second portion (68D) comprises the first anode material (62) individually without an opposing coating (Fig. 7). The second portion (68D) is supported on an inner surface of the casing sidewall, which serves as a negative terminal for the electrode. See Figure 7 and (¶27). The cathode (50) includes a second current collector (54) with third and fourth major sides supporting a cathode material, wherein the cathode is connected to a terminal pin that is electrically insulated from the negative casing (¶31). The battery further contains a separator segregating the anode and cathode (¶23).

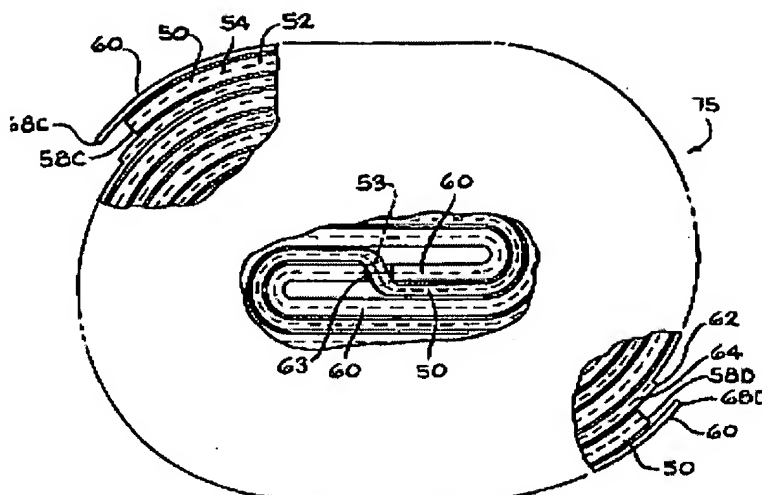


FIG. 7

The electrochemical couple is activated with an electrolyte (¶30), and a lid (84) is used to close the casing. As to claim 11, the method is satisfied, as Hallifax teaches providing all of the instant parts. See Figure 7.

With respect to claims 2 & 12, the cell has a case-negative design (¶31).

With respect to claims 3 & 13, the cathode electrode provides a cell with a case-positive design (¶31).

In re claims 4 & 14, the casing comprises separated spaced apart side walls, where in a case-negative design, the second portion (68D) has an inner surface coated with anodic material, and the active material is supported by the casing walls (fig. 8 and ¶28).

With respect to claim 6, the electrodes are associated in a jellyroll (¶5 & Fig. 8).

As to claim 7, the anodic material is lithium (¶21).

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With respect to claim 8, the cathodic material is  $\text{CF}_x$ .

With respect to claim 9, the electrolyte comprises a nonaqueous solvent of 1,2-dimethoxyethane or gamma-butyrolactone (¶30).

With respect to claim 10, the lithium salt is  $\text{LiPF}_6$  or  $\text{LiAsF}_6$  (¶30).

Therefore, Hallifax anticipates the instant claims.

### *Conclusion*

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Monique Wills whose telephone number is (571) 272-1309. The Examiner can normally be reached on Monday-Friday from 8:30am to 5:00 pm.

If attempts to reach Examiner by telephone are unsuccessful, the Examiner's supervisor, Michael Barr, may be reached at 571-272-1414. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information

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for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MW

12/10/05

**MICHAEL BARR**  
**SUPERVISORY PATENT EXAMINER**

A handwritten signature in black ink, appearing to read "Michael Barr", with a long horizontal flourish extending to the right.